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INTERNATIONAL PRELIMINARY EXAMINATION REPORT WIPO

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(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)						
AWL/116/PC	International filing date (day/mor							
International application No.								
PCT/US03/19685 International Patent Classification (IPC)	20 June 2003 (20.06.2003) or national classification and IPC	21 June 2002 (21.06.2002)						
	International Patent Classification (IPC) or national classification and IPC							
IPC(7): D21H 17/05, 17/44, 21/00 and US Cl.: 162/158 Applicant								
AHLSTROM WINDSOR LOCKS LLC								
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.								
2. This REPORT consists of a total of $\underline{\mathcal{H}}$ sheets, including this cover sheet.								
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).								
These annexes consist of a total of $\frac{3}{2}$ sheets.								
3. This report contains indic	ations relating to the following	items:						
I Basis of the rep	I Basis of the report							
II Priority	II Priority							
III Non-establishn	nent of report with regard to no	velty, inventive step and industrial applicability						
IV Lack of unity of invention								
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
VI Certain documents cited								
VII Certain defects in the international application								
VIII Certain observations on the international application								
Date of submission of the demand	Dat	te of completion of this report						
20 January 2004 (20.01.2004)	23 /	August 2004 (23.08.2004)						
Name and mailing address of the IPEA/US		horized officer						
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		ter Chin Jean Process						
P.O. Box 1450 Alexandria, Virginia 22313-1450	Tel	Paralegal Specialist ephone No. (571) 272-1700						
Facsimile No. (703) 305-3230 Form PCT/IPEA/409 (cover sheet)(July 1998)								

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application	N
PCT/US03/19685	

I.	Basis	s of the report			
1.	With	regard to the elements of the international application:*			
		the international application as originally filed.			
	\boxtimes	the description:			
		pages 1-12 as originally filed			
		pages NONE , filed with the demand			
	 3	pages NONE , filed with the letter of			
	\bowtie	the claims:			
		pages NONE , as originally filed pages NONE , as amended (together with any statement) under Article 19			
		pages NONE, as amended (together with any statement) under Article 19 pages NONE, filed with the demand			
		pages 13-15 , filed with the letter of 25 June 2004 (25.06.2004)			
		the drawings:			
	لـــا	pages NONE, as originally filed			
		pages NONE, filed with the demand			
		pages NONE , filed with the letter of			
		the sequence listing part of the description:			
		pages NONE , as originally filed			
		pages NONE , filed with the demand			
		pages NONE , filed with the letter of			
2.	Wit	h regard to the language, all the elements marked above were available or furnished to this Authority in the uage in which the international application was filed, unless otherwise indicated under this item.			
	The	se elements were available or furnished to this Authority in the following language which is:			
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).			
	П	the language of publication of the international application (under Rule 48.3(b)).			
		the language of the translation furnished for the purposes of international preliminary examination(under Rules			
		55.2 and/or 55.3).			
3.	3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the				
	international preliminary examination was carried out on the basis of the sequence listing:				
		contained in the international application in printed form.			
		filed together with the international application in computer readable form.			
		furnished subsequently to this Authority in written form.			
	<u></u>	furnished subsequently to this Authority in computer readable form.			
	L	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the			
ì		international application as filed has been furnished.			
Į	L	The statement that the information recorded in computer readable form is identical to the written sequence listing			
	_	has been furnished.			
4	· L_	The amendments have resulted in the cancellation of			
ļ		the description, pages NONE			
		the claims, Nos. NONE			
l		the drawings, sheets/fig NONE			
5		This report has been established as if (some of) the amendments had not been made, since they have been considered to go			
ł		beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**			
*	Repl	acement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in			
this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.					

Form PCT/IPEA/409 (Box I) (July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application N PCT/US03/19685

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. STATEMENT						
Novelty (N)	Claims	1-19	YES			
novely (1)	Claims		NO			
			YES			
Inventive Step (IS)		NONE	NO NO			
	Claims	1-19				
Industrial Applicability (IA)	Claims	1-19	YES			
moustral Applications (111)		NONE	NO			
Claims 1-19 lack an inventive step under PC1 Article 5 647,635). The prior art shows a wet wipe in which polyamide-epichlorohydrin resins, which correspond limit of 2.1 weight % of the chemical blocking mate weight can be used. Obviously, one could use more agent can be used in making a wet wipe, column 3,1 see page 1 of the instant specification. It would have Viazmensky et al or Win et al. Claims 1-19 meet the criteria set out in PCT Article can be made or used in industry. NEW CITATIONS	is to the claim crial. This low wet strength a lines 39-44). Ce been obvious 233(4), and the	er limit is not critical as evidenced by the gent. In fact Win et al clearly teaches as rationic lotions for wet wipes are admitted to employ the claimed cationic lotion in the	fact that as little as 1% by much as 3% wet strength by Applicant to be old the wet wipe of			

Form PCT/IPEA/409 (Box V) (July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application N

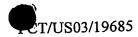
PCT/US03/19685

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claims 1,12 and 17 objected to as lacking clarity under PCT Rule 66.2(a)(v) because the claims are not fully supported by the description. The application, as originally filed, did not describe: There is no specific support for the numeric lower limit of 2.1% of the chemical blocking material in the description.

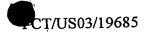
Form PCT/IPEA/409 (Box VIII) (July 1998)



What is Claimed is:

- 1. A method for increasing release of a cationic lotion component from a wet wipe, comprising the steps of forming a single ply web material comprising cellulosic fibers; treating the fibers of the web material with a solution of a chemical blocking material to provide in the web material about 2.1% to about 5% (by dry weight of cellulosic fibers) of the chemical blocking material; and treating the web material with a chemical lotion containing the cationic lotion component after the step of treating the fibers.
- 2. The method of claim 1 wherein the solution of chemical blocking material is applied to the fibers after the web material is formed.
- 3. The method of claim 1 wherein the solution of chemical blocking material is applied to the fibers before the web material is formed.
- 4. The method of claim 1, wherein the web material comprises about 20% to about 100% cellulose.
- 5. The method of claim 1, wherein the chemical blocking material comprises a polyamide-epichlorohydrin resin; a polyamide resin; a melamine resin; a high molecular weight cationic chemical material or combinations thereof.
- 6. The method of claim 1, wherein the chemical blocking material comprises about 2.1% to about 2.5% (by dry weight of cellulose fibers) in the nonwoven sheet.
- 7. The method of claim 1, wherein the web material comprises a wet laid, air laid or carded portion.
- 8. The method of claim 1, wherein the step of forming the web material comprises air laying the cellulosic fibers; and the step of treating the fibers comprises adding the chemical blocking material to the web material using a size press or a

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spray application, wherein the chemical blocking material comprises at least one of a polyamide-epichlorohydrin resin; a polyamide resin; a melamine resin; or a high molecular weight cationic chemical compound.

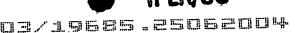
- 9. The method of claim 1, wherein the step of forming the web material comprises carding the cellulosic fibers; and the step of treating the fibers comprises adding the chemical blocking material to the web material using a size press or a spray application, wherein the chemical blocking material comprises at least one of a polyamide-epichlorohydrin resin; a polyamide resin; a melamine resin; or a high molecular weight cationic chemical compound.
- 10. The method of claim 1, wherein the step of forming the web material comprises preparing a furnish of the cellulosic fibers in a fluid and wet laying the furnish over a forming surface; and the step of treating the fibers comprises adding the chemical blocking material to at least one of the furnish or the formed web material, wherein the chemical blocking material comprises at least one of a polyamide-epichlorohydrin resin; a polyamide resin; a melamine resin; or a high molecular weight cationic chemical compound.
- 11. The method of claim 1, wherein the web material further comprises at least one of synthetic material or bicomponent fibers.
- 12. A method of decreasing cationic lotion component binding to cellulose material in a wet wipe sheet, comprising:

preparing a furnish comprising cellulose material in a fluid; wet laying the furnish over a forming surface to form a mat; and drying the mat to form a single ply sheet;

adding about 2.1% to about 5% (by weight of cellulose material) of a chemical blocking material to at least one of the furnish, the mat or the sheet; and

soaking the sheet with a chemical lotion including the cationic lotion component after the step of adding the chemical blocking material to form a wipe;

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wherein the wipe comprising about 2.1% to about 5% of chemical blocking material retains about 10% less of cationic lotion component as compared to a wipe comprised of similar materials without the chemical blocking material.

- 13. The method of claim 12 wherein the furnish further comprises at least one of synthetic material or bicomponent fibers.
- 14. The method of claim 12 wherein the chemical blocking material comprises at least one of a polyamide-epichlorohydrin resin; a polyamide resin; a melamine resin; or a high molecular weight cationic chemical compound.
- 15. The method of claim 12 wherein the chemical blocking material consists essentially of a polyamide-epichlorohydrin resin.
- 16. The method of claim 12, comprising the step of hydroentangling the mat prior to the step of drying.
- 17. A disinfectant wet wipe, comprising a single ply nonwoven fibrous sheet comprising about 20% to about 100% cellulose material; about 2.1% to about 5% (by dry weight of cellulose material) of a chemical blocking material; and a chemical lotion comprising a disinfectant material including at least one of dimethyl benzyl ammonium chloride or dimethyl ethylbenzyl ammonium chloride; wherein the chemical blocking material lessens retention of the disinfectant material to the nonwoven sheet.
- 18. The wet wipe of claim 17 wherein the chemical blocking material is a polyamide-epichlorohydrin resin.
- 19. The disinfectant wet wipe of claim 17 comprising about 2.1% to about 2.5% (by dry weight of cellulose material) of the chemical blocking material.